

MODULATION SIGNAL
2 MODULATION CIRCUIT
4 MONITOR PD
5 TEMPERATURE SENSOR
6 TEMPERATURE DETECTING CIRCUIT
7 AVERAGE DRIVING CURRENT CONTROL CIRCUIT

Fig. 2
図2

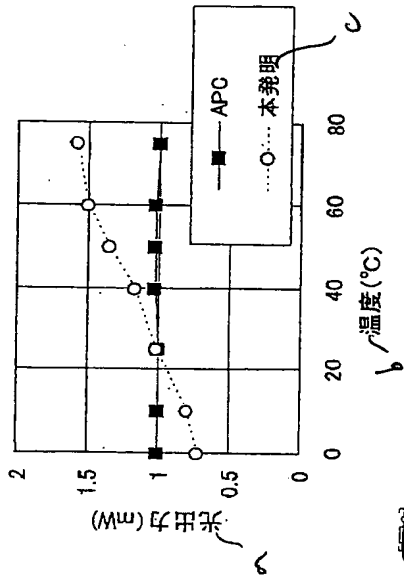


FIG. 2
a: OPTICAL OUTPUT
b: TEMPERATURE
c: PRESENT INVENTION

Fig. 3
図3

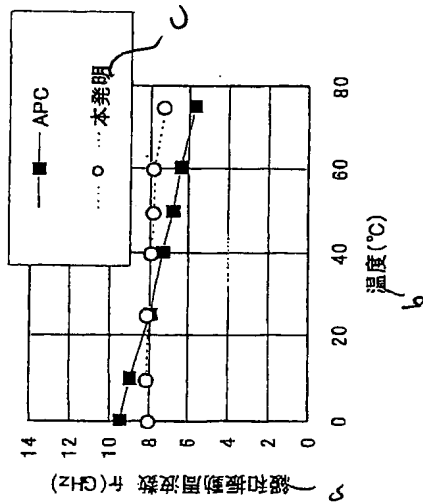


FIG. 3
a: RELAXATION OSCILLATION FREQUENCY
b: TEMPERATURE
c: PRESENT INVENTION

Fig. 4
図4

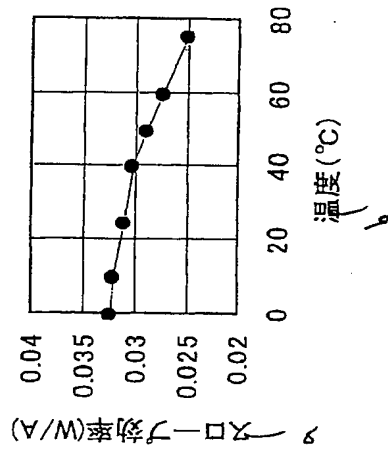


FIG. 4
a: SLOPE EFFICIENCY
b: TEMPERATURE

Fig. 5

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[図5]

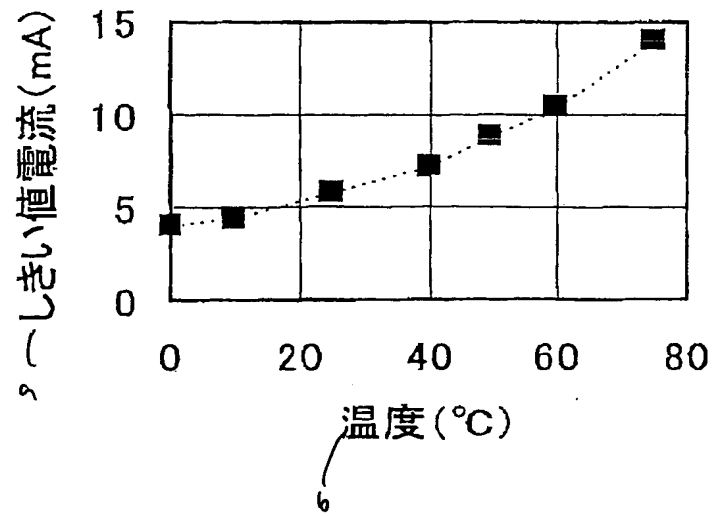


FIG. 5

a — THRESHOLD CURRENT
TEMPERATURE
b

Fig. 6

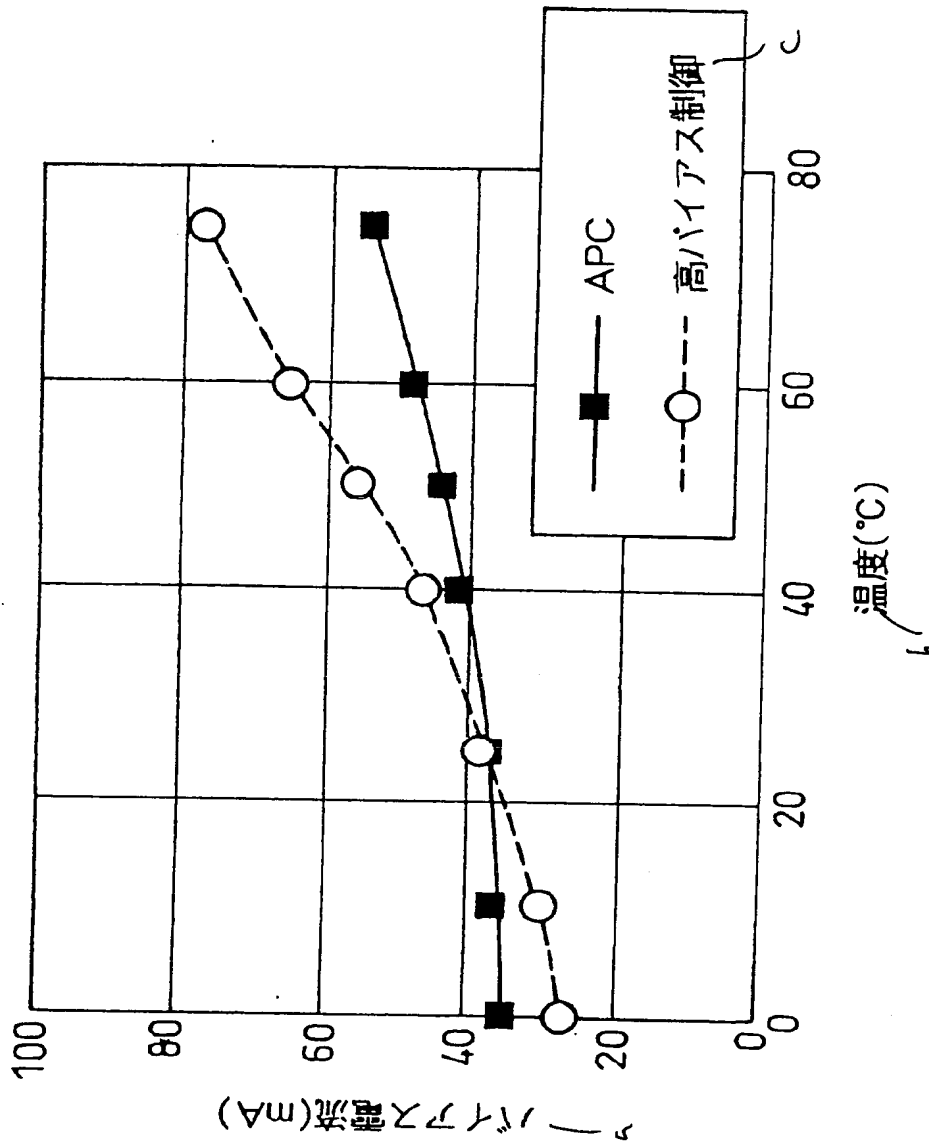


FIG. 6

a) BIAS CURRENT

b) TEMPERATURE

c) HIGH BIAS CONTROL

Fig. 7

[図7]

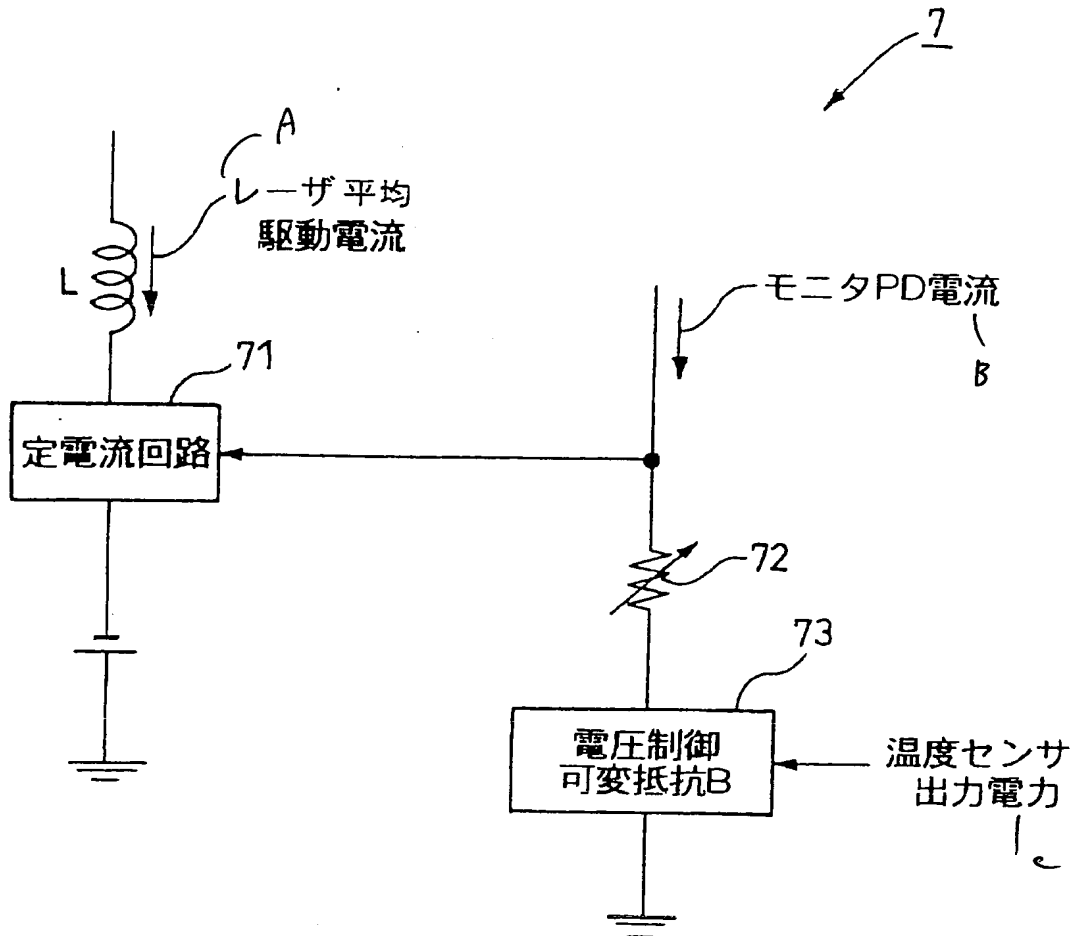


FIG. 7

71 CONSTANT CURRENT CIRCUIT

73 VOLTAGE CONTROL TYPE VARIABLE RESISTOR B

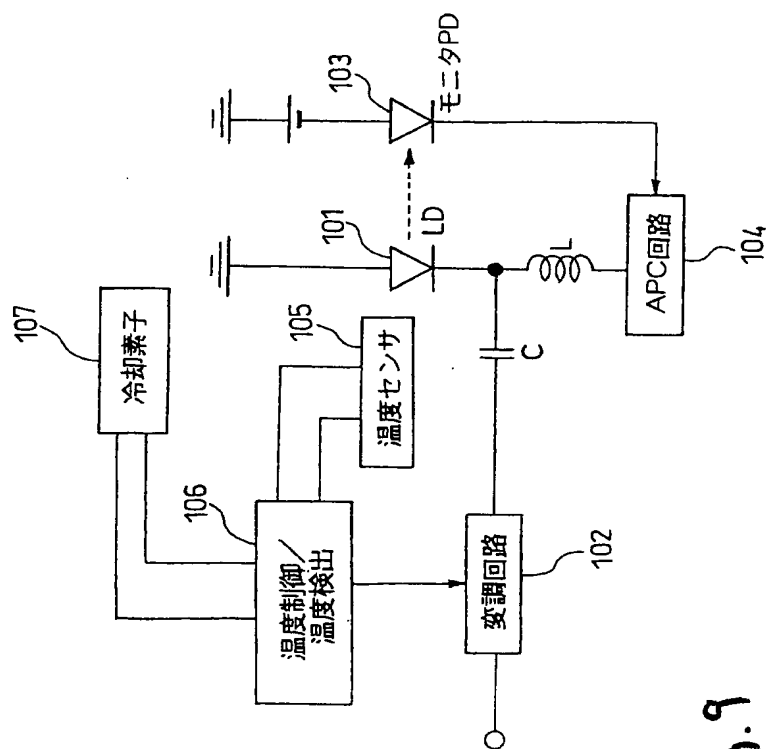
A LASER AVERAGE DRIVING CURRENT

B MONITOR PD CURRENT

C TEMPERATURE SENSOR OUTPUT POWER

Fig. 8

- FIG. 8
- 102 MODULATION CIRCUIT
 - 103 MONITOR PD
 - 104 APC CIRCUIT
 - 105 TEMPERATURE SENSOR
 - 106 TEMPERATURE CONTROL/TEMPERATURE DETECTION
 - 107 COOLING ELEMENT



- FIG. 9
- DRIVING CURRENT
 - TEMPERATURE
 - APC CONTROL

Fig. 9

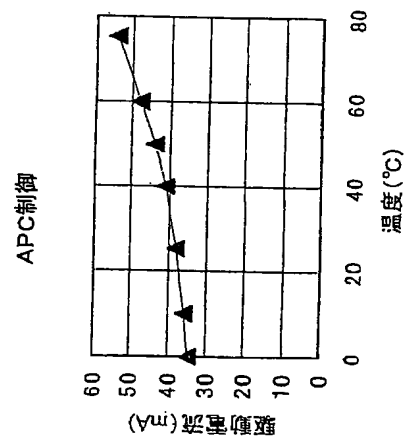


Fig. 10
~~[図10]~~

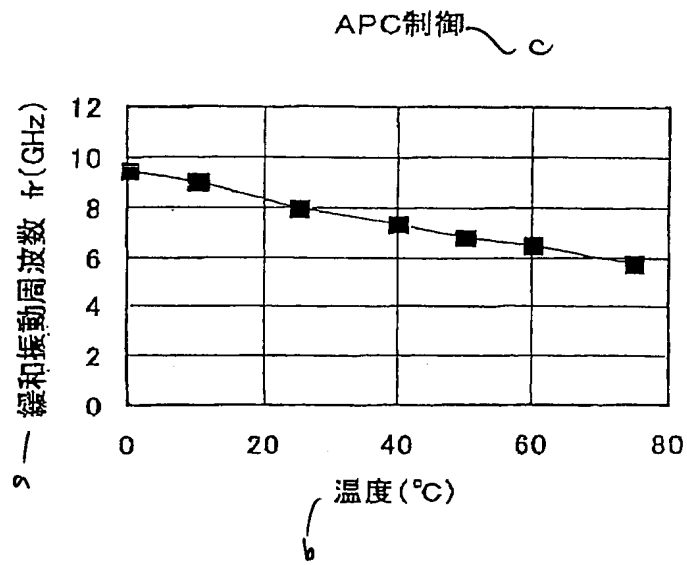


FIG. 10

a - RELAXATION OSCILLATION FREQUENCY

b - TEMPERATURE

c - APC CONTROL